

## Solvay Specialty Polymers Algoflon® 25CAR PTFE; Petroleum Coke and Graphite (discontinued \*\*)

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Conductive Carbon Filled

### Material Notes:

Data provided by the manufacturer. 25 wt.% Petroleum Coke and Graphite. Suspension polymer powder grade recommended for compression molding. Pure PTFE possesses high inertness, excellent dielectric properties, almost no moisture absorption, low friction coefficient, and is nonflammable.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Algoflon-25CAR-PTFE-Petroleum-Coke-and-Graphite-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Algoflon-25CAR-PTFE-Petroleum-Coke-and-Graphite-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	2.11 g/cc	0.0762 lb/in <sup>3</sup>	ASTM D792
Apparent Bulk Density	0.430 g/cc	0.0155 lb/in <sup>3</sup>	ASTM D4894
Linear Mold Shrinkage	0.022 cm/cm	0.022 in/in	Radial shrinkage of 10 cm o.d. sintered rod at 23°C

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	
Tensile Strength, Ultimate	19.0 MPa	2760 psi	ASTM D638
Elongation at Break	80 %	80 %	ASTM D638
Coefficient of Friction, Dynamic	0.060	0.060	ASTM D1894
Coefficient of Friction, Static	0.080	0.080	ASTM D1894

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	150 µm/m-°C	83.3 µin/in-°F	ASTM D696
	@Temperature 23.0 - 250 °C	@Temperature 73.4 - 482 °F	
Thermal Conductivity	0.590 W/m-K	4.09 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C177
Maximum Service Temperature, Air	260 °C	500 °F	Continuous Service

Electrical Properties	Metric	English	Comments
Electrical Resistivity	10000 ohm-cm	10000 ohm-cm	ASTM D257

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